K44 Duo

Installation & User Manual

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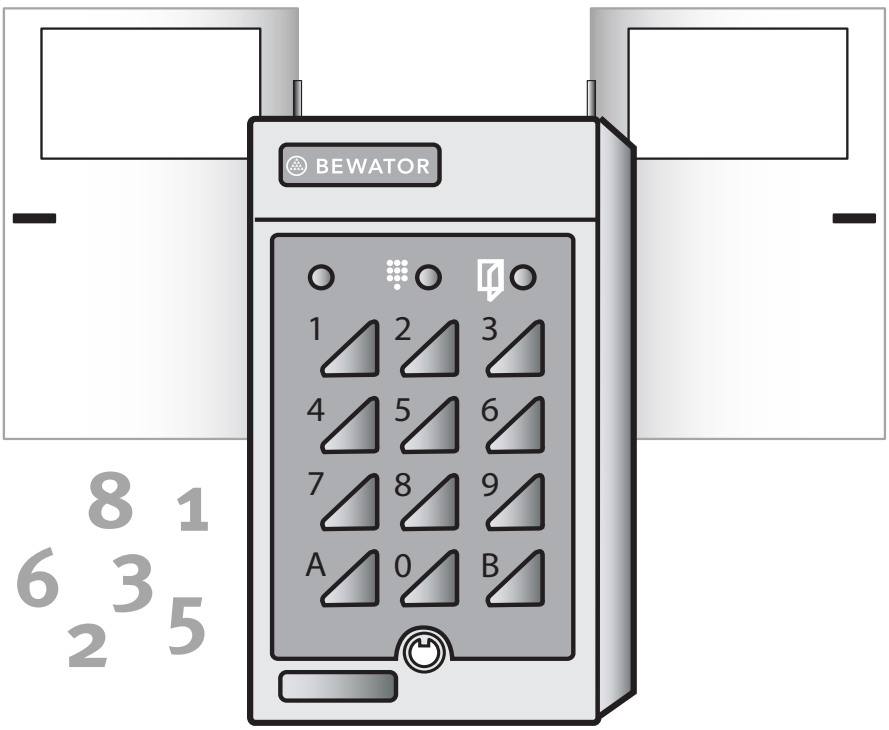

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What is K44 Duo?

K44 Duo is a compact code lock with two relay outputs. This makes K44 Duo capable of controlling two doors – or one door and an optional function, e.g. a light switch. Either a four- or a six-digit code can be used to open connected doors. All programming is done from the keypad.

Open two doors using one code

The advantage of using two relay outputs is that two functions can be activated at the same time, using only one code. For example, the code can open the lock and turn on a light switch at the same time.

Another setup is to connect the code lock to two doors. One code is programmed to operate both doors, while the other only opens one of the doors.

If the code is programmed to open both doors, you can set K44 Duo so that the other door does not open until the first door has been opened and closed (see the Delay section).

For each code, choose whether to activate both relay outputs, only one or only the other.

Disable the codes whenever needed

K44 Duo offers the possibility to disable codes at certain times. For example, the cleaning staff's access to the building can be limited to certain hours, while tenants/staff can have access to the door 24 hours a day.

By connecting two time clocks to K44 Duo, three different time zones can be used to control the codes: one controlled by time clock 1, one controlled by time clock 2 and one that is valid 24 hours a day, i.e. no time control.

Duress or alert

K44 Duo is equipped with an output that can be activated for one of the following reasons:

- A user enters a duress code
  OR
- The door held warning time expires or the door is forced open

Choose which alternative to use. Then connect e.g. a burglar alarm or similar to the output.

Zero opening

To make entrance easier, e.g. during office hours, connect an external contact. Then use the contact to activate or deactivate zero opening, i.e. opening the door by pressing the zero button on the keypad. Note that this is only applies to relay output 1.

Unlock the door permanently

If the Toggle function is activated, the code can be used to unlock the door. The door remains open until a valid code is entered once again (see the Toggle on/off section).

Door bell

If needed, a door bell can be connected to K44 Duo. To ring the bell, the visitor presses the button labelled with a bell on the code lock's keypad.

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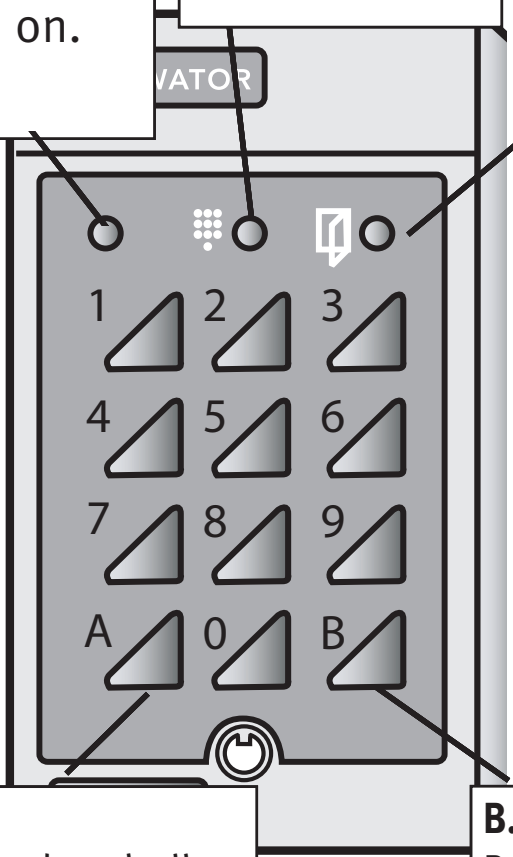
The keypad

Red LED
For optional use, e.g. to indicate alarm on.

Yellow LED
Indicates keypresses.

Green LED.
Lit when the door is unlocked.



🔔 = **A.**
Acts as a door bell button and starts the sequence telling the K44 Duo what to you want to program. E.g. A21 to program codes.

B.
Press B and enter the 6-digit password to programme the K44 Duo. Press B to leave the programming mode.

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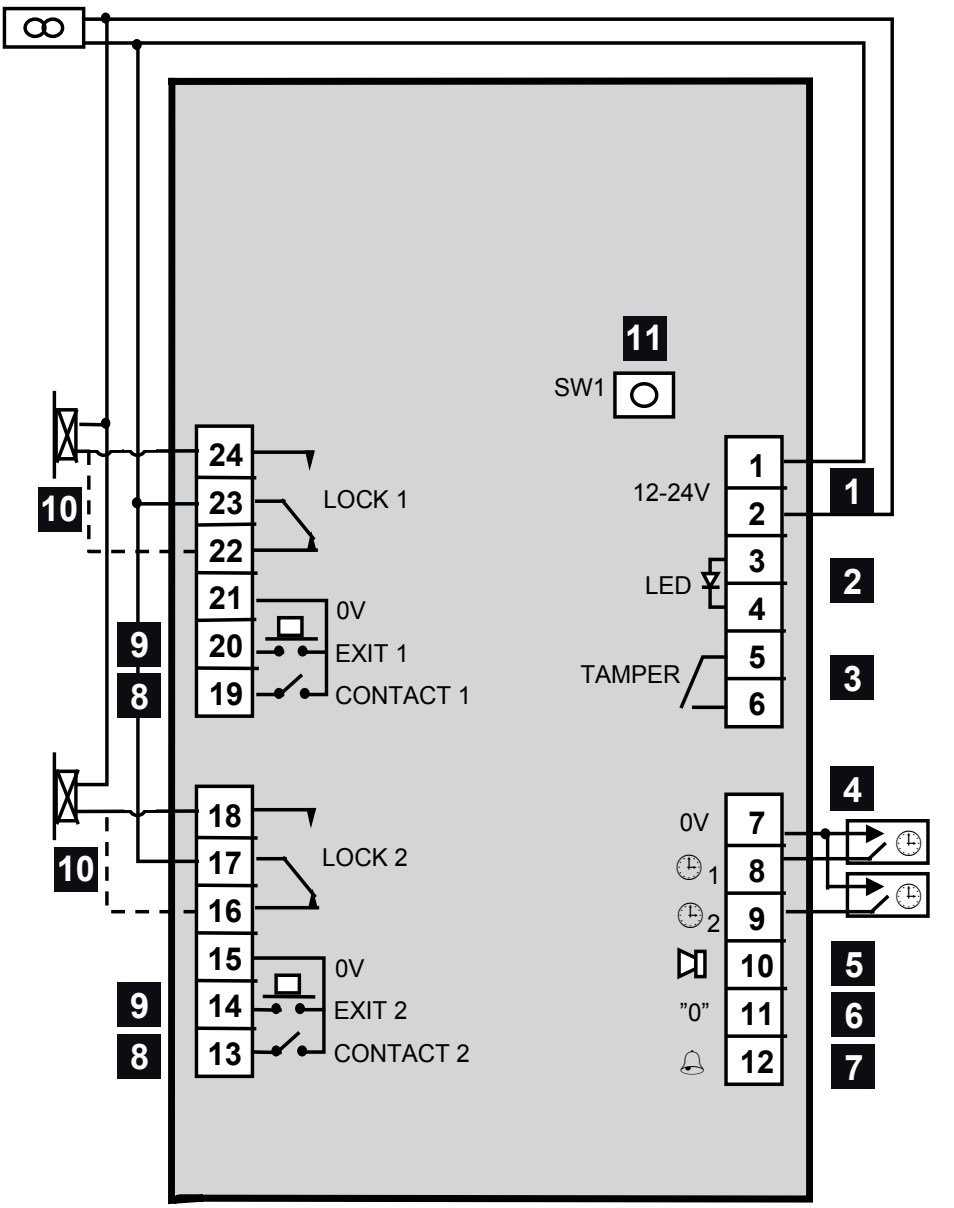
Wiring


11
SW1
24
23
22
21
20
19
LOCK 1
0V
EXIT 1
CONTACT 1
10
9
8
18
17
16
15
14
13
LOCK 2
0V
EXIT 2
CONTACT 2
10
9
8
1
2
3
4
5
6
12-24V
LED
TAMPER
0V
1
2
”0”
7
8
9
10
11
12
1
2
3
4
5
6
7

1	Power in, terminal nos 1(+) and 2. 12-24 V.
2	Input for extra LED (red), terminal nos 3 and 4. 10-35 V DC.
3	Tamper switch, terminal nos 5 and 6. Closed when the housing is closed.
4	Code disabling from external time clock. Input 1: Close terminal nos 8 and 7. Input 2: Close terminal nos 9 and 7.
5	Output for alert or duress. Use E7 relay. Connect between terminal nos 10 and 1(+).
6	Contact for zero (0) opening. Close terminal nos 11 and 7.
7	Output for Door bell (buzzer). Use E7 relay. Connect between terminal nos 12 and 1(+).
8	Input for door contacts. The contact is closed when the door is closed. Terminal nos 13 and 15 (19 and 21 respectively).
9	Exit button. The door opens on closing terminal nos 14 and 15 (20 and 21 respectively).
10	Electric locking device. Dashed line refers to locks with fail-safe function.
11	SW1 push button. Used when choosing password and erasing memory.

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Programming

Before you start programming K44 Duo, make a note of the codes to be used, to what timing group they should belong and which relay output they should control. At the back of this manual you will find a chart designed for this purpose. Look at the chart as you program K44 Duo according to the instructions below.

Buzzer and LEDs

During programming you will be guided by the buzzer and the LEDs.

In programming mode before a function is chosen: Green and yellow LED flashes.

During programming: Yellow LED goes out. Green LED is lit.

Correct instruction: Confirmed by a rising signal consisting of two quick beeps.

Faulty instruction: Confirmed by a falling signal consisting of two quick beeps.

NOTE! During programming mode, if a button is not pressed within 20 seconds, the code lock goes back to normal operation.

Choose password

The first thing to do before you can start programming is to choose a password.

1 Press and hold the SW1 button on the code lock's circuit board. Both LEDs are lit.
2 Enter a 6-digit password.
3 Make a note of the new password in the chart at the back of the manual.

Change password

1 Press B and enter the current password.
2 Enter A27.
3 Enter the new password. A warning tone is heard.
4 Enter the new password once again.
5 Press B to leave programming mode.
6 Make a note of the new password in the chart at the back of the manual.

Programming commands

Always press B and the password before any commands are used.
Leaving the programming mode can be done by pressing B.

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Program codes

1 Enter A21.

2 Enter the desired code location using two digits (01-30).

3 Enter the code for the current code location (four digits for code location 01-20 or six digits for code location 21-30).
Note! The four first digits in a 6-digit code must not be the same as the digits in a 4-digit code and the other way around.

4 Choose whether or not the code should be disabled from a time clock.
0 = no time control
1 = code disabled from time clock 1
2 = code disabled from time clock 2

5 Choose which relay output to control.
0 = both relay outputs
1 = relay output 1
2 = relay output 2

6 Program the next code by continuing from step 2 or press B to exit.

Erase codes

1 Enter A22.
2 Enter the current code. If it is a 4-digit code, enter A after the last digit.
If it is a 4-digit code, enter oooo. If it is a 6-digit code, enter oooooo.
3 Enter oooo (oooooo) again.
4 Enter o.
5 Enter o once again.
6 Erase the next code by continuing from step 2 or press B to exit.

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Change codes

1 Enter A22.
2 Enter the current code. If it is a 4-digit code, enter A after the last digit.
3 Enter the new code using four or six digits.
4 Enter the new code once again.
5 Choose whether or not the code should be disabled from a time clock.
0 = no time control
1 = code disabled from time clock 1
2 = code disabled from time clock 2
6 Choose which relay output to control.
0 = both relay outputs
1 = relay output 1
2 = relay output 2
7 Change the next code by continuing from step 2 or press B to leave code program

Set opening time

The opening time determines for how long the lock should remain open following a correct entrance code. When K44 Duo is delivered the opening time is 7 seconds for both relays.

1 Enter A28.
2 Enter the desired opening time (01-99) using two digits, e.g. 09 for 9 seconds.
3 Choose which relay output the new opening time applies to:
   0 = both
   1 = relay output 1
   2 = relay output 2

Background lighting on/off

This is how to turn off the keypad's background lighting, if needed.

1 Enter A60.
2 Enter 0.

To reactivate background lighting, press 1 in step 2 instead.

Buzzer on/off

This is how to deactivate the buzzer if sound on key-presses and door opening is not desired. Note that the buzzer will keep sounding during programming.

1 Enter A65.
2 Enter 0.

To reactivate the buzzer, press 1 in step 2 instead.

Toggle function on/off

To be able to unlock a door permanently, the toggle function has to be activated.

Proceed as follows:

1 Enter A81.
2 Enter 1.
3 Choose what relay outputs the toggle function should apply to.
   0 = both
   1 = relay output 1
   2 = relay output 2

To deactivate the toggle function, follow the above steps, only enter 0 in step 2 instead.

In the *Unlock the door permanently* section you will find instructions on how to unlock the door permanently.

Duress or Alert

The K44 Duo allows for either using duress or alert. The same command is used for different function.

Duress

With the *Duress* function activated, a user can enter a special code if he or she is forced to open the door under threat. It is important to have a plan for what action to take when a duress code is entered.

NOTE! If *Duress* is activated, make sure you have not programmed codes with consecutive digits. Code 1234 must not exist with codes 1235 and 1233. Code 5679 must not exist with codes 5670 and 5678.

The *Enter duress code* section describes how a user should enter the duress code.

Alert

When K44 Duo is delivered, the alarm output is set to be activated if the door is open too long or if the door is forced open.
Note that door contacts must be connected and that *Door monitoring* must be activated for this to work.

This is how to choose one of the functions:

1 Enter A69.

2 Enter **either**:
0 = Door Alert (default).
1 = Duress

Door monitoring on/off

If door contacts are used and this function is activated, a warning signal sounds during the time set as door held warning time, i.e. when the opening time has expired and the door is still open.
If the door held warning time expires and the door is still open, the alert output is activated (if the *Alert function* is activated). This also happens if the door is forced open.
This is how to activate *Door monitoring*:

1 Enter A67.

2 Enter 1.

To deactivate *Door monitoring*, press 0 in step 2 instead.

Set door held warning time

If the door is still open when the opening time has expired, a buzzer sounds as to remind the visitor to close the door immediately – or the alarm output will be activated. The buzzer sounds until the door is closed.

Note that door contacts must be connected and that Door control must be activated for this to work.

This is how to change the door held warning time, if needed:

1 Enter A29.

2 Enter the desired door held warning time (01-99) with two digits, e.g. 09 for 9 seconds.

3 Choose to which relay outputs the new door held warning time should apply:
   0 = both
   1 = relay output 1
   2 = relay output 2

Delay on/off

When this function is activated, the following happens: If a code is programmed to open two doors, lock relay 2 is not activated until door 1 has been opened and closed.
If door 2 is opened with the exit button, door 2 has to be opened and closed before door 1 can be opened.
Note that door contacts must be connected and that Door control must be activated for this to work.
This is how to activate Delay:

1 Enter A80.
2 Enter 1.

To deactivate Delay, press 0 in step 2 instead.

Erase the memory

This is how to erase all programmed information (including the password):

1 Press B and enter the current password.
2 Press SW1 on K44 Duo's circuit board.
3 Enter 112186.
4 Enter 112186 once again. The memory is now erased and K44 Duo goes back to the factory settings.

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Using K44 Duo

Entrance

To open the lock, a 4-digit (or 6-digit) code should be entered on the code lock's keypad.
K44 Duo is blocked if a visitor performs 12 keypresses without finding the correct code. To release the blockage, enter a correct code twice in succession.

Unlock the door permanently

To unlock the door permanently, proceed as follows:

1 Press B.
2 Enter the entrance code.
3 Enter 1.

The door is now unlocked (green LED is lit). To lock the door, follow the above steps, only enter 0 in step 3 instead.

Enter duress code

This is how to activate the alarm output when forced to open the door under threat:
Enter the usual entrance code, only add 1 to the last digit in the code.
Example 1: If the entrance code is 1234, enter 1235 instead.
Example 2: If the code is 1239, enter 1230 instead.
When a duress code is entered, the door will open at the same time as the duress output is activated. It will remain activated until reset by somebody entering programming mode.

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Technical data

Power supply:	8-24 V AC, 10-35 V DC
Power consumption:	75 mA.
Maximum load over the relay contacts:	2 A 28 V DC
Dimensions (HxWxD) mm:	140x80x40
Suitable height:	1200-1400 mm from ground to bottom edge.

If needed, complete the installation with flush mounting kit BB3.

Always start by pressing B and entering the password. Exit: Press B.						
Function	Step 1	Step 2	Step 3	Step 4	Step 5	Step 6
New entrance code	Press A21	Enter code location (2 digits). Code locations 21-30 = 6-digit codes.	Enter code (4 or 6 digits)	Enter timing group 0 = none 1 = group 1 2 = group 2	Enter relay output 0 = both 1 = relay 1 2 = relay 2	**Next code: Proceed from step 2. Exit: Press B (back to programming mode).**
Change entrance code	Press A22	Enter old code. 4-digit code: Enter code + A	Enter new code (twice)	Enter timing group 0 = none 1 = group 1 2 = group 2	Enter relay output 0 = both 1 = relay 1 2 = relay 2	Next code: Proceed from step 2. Exit: Press B (back to programming mode).
Erase entrance code	Press A22	See above	Enter 0000 (00) (twice)	Press 0	Press 0	See above

Always start by pressing B and entering the password. Exit: Press B.					
Function	**Step 1**	**Step 2**	**Step 3**	**Step 4**	**Step 5**
Change opening time	Press A28	Enter seconds (01-99)	Enter relay output (0, 1 or 2)		
Change door held warning time	Press A29	Enter seconds (01-99)	Enter relay output (0, 1 or 2)		
Change password	Press A27	Enter new code (6 digits)	Enter new code again		
Background lighting on/off	Press A60	0 = off 1 = on			
Buzzer on/off	Press A65	0 = off 1 = on			
Door monitor on/off	Press A67	0 = off 1 = on			

Function	Step 1	Step 2	Step 3	Step 4	Step 5
Alert/Duress	Press A69	0 = alert on, duress off 1 = duress on, alert off			
Delay on/off	Press A80	0 = off 1 = on			
Toggle function on/off	Press A81	0 = off 1 = on	Enter relay output (0,1 or 2)		
Erase memory	Open K44 Duo	Press SW1	Press 112186	Press 112186 again	

Svenska

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